

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

June, 2013

BNA-041 : NAVIGATIONAL AIDS AND ENVIRONMENTAL PROTECTION

Time : 3 hours

Maximum Marks : 70

Note Attempt any three questions from Section - A and any four questions from section - B. All questions carry equal marks..

SECTION -A
Navigational Aids

1. (a) Enumerate the purpose of A.I.S. fitted on board ships. 5
(b) List ten data items recorded by V.D.R. 5
2. State ten characteristics which an ideal speed log should have. 10
3. What does "RADAR" stand for ? How would you ensure the accuracy of range and bearing measurements on a radar ? 10
4. As per solas chapter V regulation 19, list 10 navigational equipments required to be carried on Board Ship of 50,000 GRT or more . 10

SECTION - B
Environmental Protection
Emergencies and Safety

5. What are the main constituents of paint ? Write 10
briefly about any two of them.
6. How are vehicles stowed and lashed on a car 10
carrier ?
7. (a) What are high cube containers ? 5
(b) What cargoes are carried in tank 5
containers ?
8. (a) What is the function of rescue coordination 5
centre in SAR Organization ?
(b) Who is on-scene coordinator and what is 5
his role ?
9. What is the role of VTS ? Explain how RADAR 10
improves effectiveness of VTS.
10. What do you understand by 'piracy'? What 10
actions are required if you notice piracy activities
in vicinity of your ship ?
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